

# Ruy Carlos Ruver Beck – Curriculum Vitae

## Personal data

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Born: Boa Vista do Buricá (Brazil), 1974, June 8th

Citizenship: Brazilian

## Education

1995 – Graduation in Pharmacy, Universidade Federal de Santa Maria, Brazil  
2000 – Master’s in Pharmaceutical Science and Technology, Universidade Federal de Santa Maria, Brazil  
2005 – PhD in Pharmaceutical Sciences, Universidade Federal do Rio Grande do Sul, Brazil, with a collaborative period at the Saarland University, Germany (Department of Biopharmaceutics and Pharmaceutical Technology).

## Professional experience

2005 - 2010 **Associate Professor**, Universidade Federal de Santa Maria (UFSM), Brazil.  
Since 2010 **Associate Professor**, Universidade Federal do Rio Grande do Sul (UFRGS), Brazil.  
2016-2017 **Visiting Scientist** at the University College of London (School of Pharmacy), UK.

## Academic administration

2009-2010 Substitute Coordenador of the Pharmaceutical Sciences Graduate Program, Universidade Federal de Santa Maria (UFSM), Brazil.  
2011-2015 Vice-Dean of the School of Pharmacy, Universidade Federal do Rio Grande do Sul (UFRGS), Brazil.  
Since 2019 Substitute Coordenador of the Pharmaceutical Sciences Graduate Program, Universidade Federal do Rio Grande do Sul (UFRGS), Brazil.

## Personal Statement

He is an Associate Professor in the School of Pharmacy at the Federal University of Rio Grande do Sul in Brazil, since 2010. He received his PhD in Pharmaceutical Sciences in 2005 with a collaborative period at the Saarland University in Germany, where he works under the supervision of Prof. Dr. Claus-Michael Lehr. In 2016, he was a Visiting Scientist at the UCL School of Pharmacy in UK. His main research focuses are the development of drug-loaded nanocarriers and 3D printing of pharmaceuticals. His research group has received continuous financial support from Brazilian research funding agencies (CNPq, FAPERGS and CAPES) since 2005. He has authored 134 peer-reviewed publications, 12 books chapters and mentored 21 graduate students (14 MSc and 7 PhD) and several undergraduate students. He is the Editor of the book “Nanocosmetics and Nanomedicines: New Approaches for Skin Care” edited by Springer (2011). In 2020, he was cited among the most influential scientists in the World in 2019 (Top 2% in Pharmacology & Pharmacy, in the year 2019,

<https://doi.org/10.1371/journal.pbio.3000918>). He is a member of Associação Brasileira de Ciências Farmacêuticas (ABCF), Controlled Release Society (CRS), and CRS Brazilian Chapter.

## **Contributions to Science and Technology**

**Number of scientific paper in refereed journals:** 134 - **Book chapters:** 12

**Book editor:** 1

**h-index:** 31; **Times cited:** 2819 (Web of Science)

**Patent applications:** 3 (in Brazil)

## **Selected publications (five selected in the last five years, out of 134):**

Dos Santos, J.; Oliveira, R. S.; Oliveira, T. V.; Velho, M. C.; Konrad, M. V.; Silva, G. S.; Deon, M.; Beck, R. C. R. Three-Dimensional Printing and Nanotechnology: A Multiscale Alliance In Personalised Medicine. **Advanced Functional Materials**, 2021, in press.

Dos Santos, J.; Deon, M.; Da Silva, G. S.; Beck, R. C. R. Multiple Variable Effects In The Customisation Of Fused Deposition Modelling 3d-Printed Medicines: A Design Of Experiments (Doe) Approach. **International Journal of Pharmaceutics**, 120331, in press, 2021.

De Oliveira, E. G.; De Oliveira, R. S.; Zatta, K. C.; Furian, A. F.; Oliveira, M. S.; Pohlmann, A. R.; Guterres, S. S.; Beck, R. C. R. Phenytoin-Loaded Lipid-Core Nanocapsules Improve the Technological Properties and In Vivo Performance of Fluidised Bed Granules. **Materials Science & Engineering C-Materials for Biological Applications**, 111, 110753, 2020.

Cardoso, A. M.; De Oliveira, E. G.; Coradini, K.; Bruinsmann, F. A.; Aguirre, T.; Lorenzoni, R.; Barcellos, R. C. S.; Roversi, K.; Rossato, D. R.; Pohlmann, A. R.; Guterres, S. S.; Burger, M. E.; Beck, R. C. R. Chitosan Hydrogels Containing Nanoencapsulated Phenytoin For Cutaneous Use: Skin Permeation/Penetration And Efficacy In Wound Healing. **Materials Science & Engineering C-Materials For Biological Applications**, 96, 205-217, 2019.

Beck, R.C.R.; Chaves, P.S.; Goyanez, A.; Vukosavljevic, B.; Buanz, A.; Windbergs, M.; Basit, A.W.; Gaisford, S. 3d Printed Tablets Loaded with Polymeric Nanocapsules: An Innovative Approach to Produce Customized Drug Delivery Systems. **International Journal of Pharmaceutics**, 528, 268-279, 2017.